

**Application No.: To be assigned**  
**Attorney Docket No.: 09138.0045-00**

**Attachments:**      **Abstract**

**ABSTRACT**

Disclosed is a reference standard for a detectable entity, the reference standard comprising a support medium, such as an embedding medium, a compact particle having a compact shape with a quantity of detectable entity coupled thereto and supported by the medium, in which the compact particle is a biological, such as a cellular compact particle. We also disclose a reference standard for a detectable entity, the reference standard comprising a support medium, such as an embedding medium, a compact particle having a compact shape with a quantity of detectable entity coupled thereto and supported by the medium, in which the compact particle is a non-biological compact particle, such as a non-cellular compact particle having cell-like dimensions, preferably less than 1.5 mm.